

SEQUENCE LISTING

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<110> Stephen P. Goff
Guanxia Gao

<120> ZAP PROTEIN AND RELATED COMPOSITIONS AND METHODS

<130> 67489-PCT-US/JPW/JW

<150> PCT/US2004/026162

<151> 2004-08-12

<160> 10

<170> PatentIn version 3.1

<210> 1

<211> 776

<212> PRT

<213> mammalian

<400> 1

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Pro Glu Ala Gln Leu Tyr Glu Leu Leu Glu Thr Ala Gly Pro Asp Arg
35          40          45
Phe Val Leu Leu Glu Thr Gly Gly Gln Ala Gly Ile Thr Arg Ser Val
50          55          60
Val Ala Thr Thr Arg Ala Arg Val Cys Arg Arg Lys Tyr Cys Gln Arg
65          70          75
Pro Cys Asp Ser Leu His Leu Cys Lys Leu Asn Leu Leu Gly Arg Cys
85          90          95
His Tyr Ala Gln Ser Gln Arg Asn Leu Cys Lys Tyr Ser His Asp Val
100         105        110
Leu Ser Glu Gln Asn Phe Gln Ile Leu Lys Asn His Glu Leu Ser Gly
115        120        125
Leu Asn Gln Glu Glu Leu Ala Cys Leu Leu Val Gln Ser Asp Pro Phe
130        135        140
Phe Leu Pro Glu Ile Cys Lys Ser Tyr Lys Gly Glu Gly Arg Lys Gln
145        150        155        160
Thr Cys Gly Gln Pro Gln Pro Cys Glu Arg Leu His Ile Cys Glu His
165        170        175
Phe Thr Arg Gly Asn Cys Ser Tyr Leu Asn Cys Leu Arg Ser His Asn
180        185        190
Leu Met Asp Arg Lys Val Leu Thr Ile Met Arg Glu His Gly Leu Ser
195        200        205
Pro Asp Val Val Gln Asn Ile Gln Asp Ile Cys Asn Asn Lys His Ala
1/6

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210

215

220

Arg 225 Arg Asn Pro Pro Gly 230 Thr Arg Ala Ala His 235 Pro His Arg Arg Gly 240
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 Ser Leu Glu Phe 260 Leu Ser Pro Val Val 265 Ser Pro Leu Gly 270 Ser Gly Pro
 Pro Ser Pro 275 Asp Val Thr Ser Cys 280 Lys Asp Ser Leu Glu 285 Asp Val Ser
 Val Asp 290 Val Thr Gln Lys Phe 295 Lys Tyr Leu Gly Thr 300 His Asp Arg Ala
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 Gln Met Arg Ala Ser 325 Gln Glu Phe Ser Glu 330 Asp Gly Asn Leu Asp 335 Asp
 Ile Phe Ser Arg 340 Asn Arg Ser Asp Ser 345 Ser Ser Ser Arg Ala 350 Ser Ala
 Ala Lys Val 355 Ala Gln Arg Asn Glu 360 Ala Val Ala Met Lys 365 Met Gly Met
 Glu Val 370 Lys Gly Lys Lys Glu 375 Ala Pro Asp Ile Asp 380 Arg Val Pro Phe
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 Gly Ile Pro Gly Lys 405 Lys Phe Thr Ala Asn 410 Asp Leu Glu Asn Leu 415 Leu
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 Thr Thr Gly 435 Arg Ile Thr Asp Ser 440 Gly Gln Asp Lys Ala 445 Phe Leu Gln
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 Lys Ser Ser Thr Ser 485 Gly Phe Ala Ile Lys 490 Pro Ala Ile Ala Gly 495 Gly
 Lys Glu Ala Val 500 Tyr Ser Gly Val Gln 505 Ser Pro Arg Ser Gln 510 Val Leu
 Ala Val Pro 515 Gly Glu Ala Thr Thr 520 Pro Val Gln Ser Asn 525 Arg Leu Pro
 Gln Ser 530 Pro Leu Ser Ser Ser 535 Ser His Arg Ala Ala 540 Ala Ser Gly Ser
 Pro Gly Lys Asn Ser Thr 550 His Thr Ser Val Ser 555 Pro Ala Ile Glu Ser 560
 545 550 555 2/6

Ser Arg Met Thr Ser Asp Pro Asp Glu Tyr Leu Leu Arg Tyr Ile Leu
 565 570 575
 Asn Pro Leu Phe Arg Met Asp Asn His Gly Pro Lys Glu Ile Cys Gln
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 Asp His Leu Tyr Lys Gly Cys Gln Gln Ser His Cys Asp Arg Ser His
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 Phe His Leu Pro Tyr Arg Trp Gln Met Phe Val Tyr Thr Thr Trp Arg
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 Asp Phe Gln Asp Met Glu Ser Ile Glu Gln Ala Tyr Cys Asp Pro His
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 Val Glu Leu Ile Leu Ile Glu Asn His Gln Ile Asn Phe Gln Lys Met
 645 650 655
 Thr Cys Asp Ser Tyr Pro Ile Arg Arg Leu Ser Thr Pro Ser Tyr Glu
 660 665 670
 Glu Lys Pro Leu Ser Ala Val Phe Ala Thr Lys Trp Ile Trp Tyr Trp
 675 680 685
 Lys Asn Glu Phe Asn Glu Tyr Ile Gln Tyr Gly Asn Glu Ser Pro Gly
 690 695 700
 His Thr Ser Ser Asp Ile Asn Ser Ala Tyr Leu Glu Ser Phe Phe Gln
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 Ser Cys Pro Arg Gly Val Leu Pro Phe Gln Ala Gly Ser Gln Lys Tyr
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| | | | | | | |
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| cagagccact | gcgacaggag | tcacttccat | ctgccctacc | ggtggcagat | gttcgtatat | 1860 |
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| gttgaactca | ttttgataga | aaaccatcag | atcaatttcc | agaaaatgac | ctgtgactcc | 1980 |
| taccccatcc | gacgcctctc | cactccctca | tatgaggaaa | agccacttag | tgctgtcttc | 2040 |
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<210> 8

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19

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34